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Newzen Consultants Bangalore

NZ/QC/YPD/T&F-W3/2018-19/P2-W5

Date: 21-04-2018

TEST REPORT ON WET MIX MACADAM MIX

(GRADATION TEST)

Sub: To conduct Gradation test on Wet Mix Macadam (WMM) Mix.

{Project*: Package-2 1.Improvement of drains and resurfacing to roads in Hindu Samaja Road and Surrounding Sirke Apartment area in ward no.03, Attur. 2.Improvements of Roads at Adithyanagara in ward no 03. 3.Improvements of Roads And Drains at Santhosh Nagara and Muneshwara Nagara In ward no 03, Attur.}

Ref.: Material testing/PMC/17-18,

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Naveen Rao N (M/s Nischal Constructions).

TEST RESULTS

1. Gradation Test:

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
53.00	100.00	100
45.00	97.50	95-100
26.50	---	-
22.40	73.67	60-80
11.20	55.73	40-60
4.75	32.85	25-40
2.36	27.50	15-30
0.600	17.51	8-22
0.075	4.13	0-5

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Proprietor

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Newzen Consultants Bangalore

Date: 21-04-2018

TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)– 1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013.
1.	Aggregate Impact Value	**26.81 %**	Not more than 30.00 %
2.	Combined Flakiness and Elongation index, %	**28.12 %**	Not more than 35.0 %
3.	Water absorption, %	**0.53 %**	Not more than 2.0 %
4.	Plasticity Index, %	**NP**	Not more than 6.0 %

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Newzen Consultants Bangalore

NZ/QC/YPD/T&F-W3/2018-19/P2-W6 Date: 23-04-2018

TEST REPORT ON WET MIX MACADAM MIX

(GRADATION TEST)

Sub: To conduct Gradation test on Wet Mix Macadam (WMM) Mix.

{Project*: Package-2 1.Improvement of drains and resurfacing to roads in Hindu Samaja Road and Surrounding Sirke Apartment area in ward no.03, Attur. 2.Improvements of Roads at Adithyanagara in ward no 03. 3.Improvements of Roads And Drains at Santhosh Nagara and Muneshwara Nagara In ward no 03, Attur.}

Ref.: Material testing/PMC/17-18,

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Naveen Rao N (M/s Nischal Constructions).

TEST RESULTS

1. Gradation Test:

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
53.00	**100.00**	100
45.00	**97.50**	95-100
26.50	**---**	-
22.40	**68.33**	60-80
11.20	**52.87**	40-60
4.75	**34.94**	25-40
2.36	**21.23**	15-30
0.600	**16.15**	8-22
0.075	**3.42**	0-5

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Newzen Consultants Bangalore

Date: 23-04-2018

TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)– 1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013.
1.	Aggregate Impact Value	**26.45 %**	Not more than 30.00 %
2.	Combined Flakiness and Elongation index, %	**27.22 %**	Not more than 35.0 %
3.	Water absorption, %	**0.57 %**	Not more than 2.0 %
4.	Plasticity Index, %	**NP**	Not more than 6.0 %

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NZ/QC/YPD/T&F-W3/2018-19/P2-W7 Date: 24-04-2018

TEST REPORT ON WET MIX MACADAM MIX

(GRADATION TEST)

Sub: To conduct Gradation test on Wet Mix Macadam (WMM) Mix.

{Project*: Package-2 1.Improvement of drains and resurfacing to roads in Hindu Samaja Road and Surrounding Sirke Apartment area in ward no.03, Attur. 2.Improvements of Roads at Adithyanagara in ward no 03. 3.Improvements of Roads And Drains at Santhosh Nagara and Muneshwara Nagara In ward no 03, Attur.}

Ref.: Material testing/PMC/17-18,

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Naveen Rao N (M/s Nischal Constructions).

TEST RESULTS

1. Gradation Test:

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
53.00	**100.00**	100
45.00	**97.88**	95-100
26.50	**---**	-
22.40	**73.56**	60-80
11.20	**50.05**	40-60
4.75	**29.46**	25-40
2.36	**20.23**	15-30
0.600	**16.66**	8-22
0.075	**3.87**	0-5

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Newzen Consultants Bangalore

Date: 24-04-2018

TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)– 1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013.
1.	Aggregate Impact Value	**26.87 %**	Not more than 30.00 %
2.	Combined Flakiness and Elongation index, %	**28.54 %**	Not more than 35.0 %
3.	Water absorption, %	**0.65 %**	Not more than 2.0 %
4.	Plasticity Index, %	**NP**	Not more than 6.0 %

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NZ/QC/YPD/T&F-W3/2018-19/P2-W8 Date: 26-04-2018

TEST REPORT ON WET MIX MACADAM MIX

(GRADATION TEST)

Sub: To conduct Gradation test on Wet Mix Macadam (WMM) Mix.

{Project*: Package-2 1.Improvement of drains and resurfacing to roads in Hindu Samaja Road and Surrounding Sirke Apartment area in ward no.03, Attur. 2.Improvements of Roads at Adithyanagara in ward no 03. 3.Improvements of Roads And Drains at Santhosh Nagara and Muneshwara Nagara In ward no 03, Attur.}

Ref.: Material testing/PMC/17-18,

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Naveen Rao N (M/s Nischal Constructions).

TEST RESULTS

1. Gradation Test:

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
53.00	100.00	100
45.00	98.65	95-100
26.50	---	-
22.40	77.88	60-80
11.20	53.97	40-60
4.75	36.76	25-40
2.36	22.58	15-30
0.600	14.23	8-22
0.075	3.65	0-5

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Newzen Consultants Bangalore

Date: 26-04-2018

TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)– 1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013.
1.	Aggregate Impact Value	**26.32 %**	Not more than 30.00 %
2.	Combined Flakiness and Elongation index, %	**28.56 %**	Not more than 35.0 %
3.	Water absorption, %	**0.42 %**	Not more than 2.0 %
4.	Plasticity Index, %	**NP**	Not more than 6.0 %

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NZ/QC/YPD/T&F-W3/2018-19/P2-W9 Date: 28-04-2018

TEST REPORT ON WET MIX MACADAM MIX

(GRADATION TEST)

Sub: To conduct Gradation test on Wet Mix Macadam (WMM) Mix.

{Project*: Package-2 1.Improvement of drains and resurfacing to roads in Hindu Samaja Road and Surrounding Sirke Apartment area in ward no.03, Attur. 2.Improvements of Roads at Adithyanagara in ward no 03. 3.Improvements of Roads And Drains at Santhosh Nagara and Muneshwara Nagara In ward no 03, Attur.}

Ref.: Material testing/PMC/17-18,

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Naveen Rao N (M/s Nischal Constructions).

TEST RESULTS

1. Gradation Test:

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
53.00	**100.00**	100
45.00	**98.44**	95-100
26.50	**---**	-
22.40	**73.23**	60-80
11.20	**55.65**	40-60
4.75	**33.78**	25-40
2.36	**27.43**	15-30
0.600	**17.63**	8-22
0.075	**3.87**	0-5

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NEW TECHNOLOGIES TO INNOVATE

Newzen Consultants Bangalore

Date: 28-04-2018

TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)– 1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013.
1.	Aggregate Impact Value	**24.65 %**	Not more than 30.00 %
2.	Combined Flakiness and Elongation index, %	**27.66 %**	Not more than 35.0 %
3.	Water absorption, %	**0.59 %**	Not more than 2.0 %
4.	Plasticity Index, %	**NP**	Not more than 6.0 %

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NEW TECHNOLOGIES TO INNOVATE

Newzen Consultants Bangalore

NZ/QC/YPD/T&F-W3/2018-19/P2-W10 Date: 30-04-2018

TEST REPORT ON WET MIX MACADAM MIX

(GRADATION TEST)

Sub: To conduct Gradation test on Wet Mix Macadam (WMM) Mix.

{Project*: Package-2 1.Improvement of drains and resurfacing to roads in Hindu Samaja Road and Surrounding Sirke Apartment area in ward no.03, Attur. 2.Improvements of Roads at Adithyanagara in ward no 03. 3.Improvements of Roads And Drains at Santhosh Nagara and Muneshwara Nagara In ward no 03, Attur.}

Ref.: Material testing/PMC/17-18,

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Naveen Rao N (M/s Nischal Constructions).

TEST RESULTS

1. Gradation Test:

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
53.00	**100.00**	100
45.00	**97.98**	95-100
26.50	**---**	-
22.40	**69.32**	60-80
11.20	**52.54**	40-60
4.75	**34.97**	25-40
2.36	**21.45**	15-30
0.600	**16.23**	8-22
0.075	**3.32**	0-5

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Newzen Consultants Bangalore

Date: 30-04-2018

TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)– 1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013.
1.	Aggregate Impact Value	**26.76 %**	Not more than 30.00 %
2.	Combined Flakiness and Elongation index, %	**28.42 %**	Not more than 35.0 %
3.	Water absorption, %	**0.59 %**	Not more than 2.0 %
4.	Plasticity Index, %	**NP**	Not more than 6.0 %

KIRAN. R
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Newzen Consultants Bangalore

NZ/QC/YPD/T&F-W3/2018-19/P2-BD1

Date: 20-04-2018

1. TEST REPORT ON BITUMEN SAMPLE:

Sub: Testing of Bitumen sample VG-30 Grade used in Dense Graded Bituminous Macadam.
{Project*: Package-2 1.Improvement of drains and resurfacing to roads in Hindu Samaja Road and Surrounding Sirke Apartment area in ward no.03, Attur. 2.Improvements of Roads at Adithyanagara in ward no 03. 3.Improvements of Roads And Drains at Santhosh Nagara and Muneshwara Nagara In ward no 03, Attur.}
Ref.: Material testing/PMC/17-18,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. Naveen Rao N (M/s Nischal Constructions).
Technical Reference: Ministry of Road Transport and Highways, V Revision, 2013 and IS 73: 1992.

TABLE 1.1 ;

SL No	Details	Test Results	Requirements as per I.S 73 –1992 Specifications
1.	Penetration at 25^0 C	**56.00^0 C**	Min. 45
2.	Ductility Value at 25^0 C	**124 cm**	40
3.	Flash point	**245^0 C**	Minimum 220^0 C
4.	Softening point	**53.25^0 C**	Min. 47

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NEWZEN CONSULTANTS BANGALORE

NEW TECHNOLOGIES TO INNOVATE

Newzen Consultants Bangalore

NZ/QC/YPD/T&F-W3/2018-19/P2-CD1

Date: 20-04-2018

1. TEST REPORT ON COARSE AGGREGATE:

Sub: Testing of Coarse Aggregate used in Dense Graded Bituminous Macadam.
{Project*: Improvements to Roads and Drain at BB Nagar in Yelahanka Division.}
Ref.: Material testing/QC/17-18,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

TABLE 1.1 ;

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)– 1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013.
1.	Aggregate Impact Value	**26.28%**	Not more than 27.00 % for DBM
2.	Combined Flakiness and Elongation index, %	**28.37 %**	Not more than 35.0 %
3.	Water absorption, %	**0.87 %**	Not more than 2.0 %
4.	Specific gravity	**2.62**	------
5.	Soundness	**6.32 %**	Max. 12 % in Sodium Sulphate

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Newzen Consultants Bangalore

NZ/QC/YPD/T&F-W3/2018-19/P2-DM1

Date: 23-04-2018

1.TEST REPORT ON BITUMINOUS MIXES :

(BITUMEN EXTRACTION TEST & GRADATION TEST)

Sub: To determine the percentage of bitumen and gradation for DBM mix sample.

{Project*: Package-2 1.Improvement of drains and resurfacing to roads in Hindu Samaja Road and Surrounding Sirke Apartment area in ward no.03, Attur. 2.Improvements of Roads at Adithyanagara in ward no 03. 3.Improvements of Roads And Drains at Santhosh Nagara and Muneshwara Nagara In ward no 03, Attur.}

Ref.: Material testing/PMC/17-18,

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Naveen Rao N (M/s Nischal Constructions).

TEST RESULTS

A. Type of Construction : **Dense Graded Bituminous Macadam.**

1. The bitumen content obtained after subjecting the sample for Bitumen Extraction test = **4.53 %**

2. **Gradation Test**

TABLE 1.1

Sieve Size, mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Gradation requirement as per Table 500-10 of MORTH Specfications-2013 DBM (Grading - 2)
37.5	**100**	100
26.5	**96.21**	90-100
19.0	**89.44**	71-95
13.20	**75.51**	56-80
4.75	**49.33**	38-54
2.36	**34.54**	28-42
0.300	**17.23**	7-21
0.075	**7.23**	2-8

K...R

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